

(JOURNAL
OF THE)
**American Veterinary Medical
Association**

FORMERLY
AMERICAN VETERINARY REVIEW
Original Official Organ U. S. Vet. Med. Ass'n.

Edited and Published for
THE AMERICAN VETERINARY MEDICAL ASSOCIATION

By
H. PRESTON HOSKINS, DETROIT, MICH.

EXECUTIVE BOARD
GEORGE HILTON, 1st District; E. P. ALTHOUSE, 2d District; L. A. MERILLAT, 3d District;
C. A. CARY, 4th District; C. H. STANGE, Chairman, 5th District; GEO. H. HART,
6th District; R. S. MACKELLAR, Member-at-Large.

Volume LXXV
NEW SERIES VOLUME 28

JULY, 1929, to DECEMBER, 1929

DETROIT, MICH.

1929

New Hill Memorial Library
Louisiana State University

INDEX OF AUTHORS

- | | |
|--|------------------------------------|
| Baker, H. R., 86. | Howarth, J. A., 741. |
| Beach, J. R., 592. | Huddleson, I. Forest, 578. |
| Beaudette, F. R., 563. | Hull, F. E., 333, 626, 765. |
| Becker, Henry C., 91. | Johnson, W. T., 629. |
| Biester, H. E., 705. | Kittrell, Earle L., 103, 361, 371. |
| Bley, C. E., 360. | Larson, C. H., 105. |
| Bonnikson, H. P., 351. | Lee, A. M., 51. |
| Boyd, W. L., 215. | Lee, Walter W., 679. |
| Bullard, J. F., 337. | Lewis, Henry V., 771. |
| Bunyea, Hubert, 408, 581. | Lothe, Herbert, 148. |
| Bushnell, L. D., 611. | McCulloch, E. C., 21. |
| Busman, H., 105. | McNutt, S. H., 365. |
| Coon, C. J., 611. | Mayo, N. S., 406. |
| Cuthbert, R. G., 363. | Merillat, L. A., 357. |
| Dade, James, 173. | Mohler, J. R., 309. |
| Damon, Samuel R., 761. | Munce, T. E., 295. |
| Davis, D. E., 328. | Murray, Chas., 705. |
| Delez, A. L., 215. | Niemann, K. W., 38. |
| Dorset, M., 408. | Noffsinger, C. H., 104. |
| Doyle, L. P., 342, 773. | Palmer, C. C., 86. |
| Edwards, P. R., 333, 626, 765. | Parker, R. R., 173. |
| Elder, Cecil, 51. | Payne, L. P., 611. |
| Emmel, M. W., 230, 369, 369, 578, 647. | Phelps, T. R., 51. |
| Feldman, William H., 192. | Records, Edward, 201. |
| Fish, Pierre A., 695. | Schlingman, A. S., 74. |
| Fitch, C. P., 215, 347. | Schlotthauer, Carl F., 370. |
| Graham, Robert, 21, 769. | Shigley, J. F., 360, 362. |
| Hall, Maurice C., 319. | Stafseth, H. J., 230, 546. |
| Hall, Walter J., 408, 581. | Thorp, Jr., Frank, 21, 769. |
| Harding, Victor John, 702. | Tunncliff, E. A., 21. |
| Hays, C. H., 549. | Vawter, Lyman R., 201. |
| Hilts, W. H., 68. | Volkmar, Fritz, 647. |
| | Wright, Willard H., 100. |

LIST OF ILLUSTRATIONS

PHOTOGRAPH, FORT PONTCHARTRAIN, DETROIT, 225 YEARS AGO, 37.

AUTOPSY FINDINGS IN FIELD CASES OF FOWL PARALYSIS, 38.

Fig. 1. Bird 26, showing paralysis due to coccidiosis, 43.

PHOTOGRAPH, PUBLIC LIBRARY, DETROIT, 67.

PHOTOGRAPH, COME TO MICHIGAN TO FISH, 85.

RABIES CONTROL IN CHICAGO, 91.

Fig. 1. Graph of dog-bite cases for the year 1928. Chicago Department of Health, 92.

Fig. 2. Graph showing number of persons receiving antirabic treatment for the year 1928. Chicago Department of Health, 94.

Fig. 3. Graph showing number of laboratory examinations of animals for rabies during 1928. Chicago Department of Health, 96.

Fig. 4. Graph showing number of dogs impounded during 1928. Chicago Department of Health, 98.

PORTRAIT, DR. G. G. GRAHAM, 113.

PORTRAIT, DR. C. E. SALSBERY, 114.

PHOTOGRAPH, SCENE AT DETROIT ZOO, 132.

PHOTOGRAPH, A SECTION OF DETROIT'S SKY-LINE, 134.

PHOTOGRAPH, BOOK-CADILLAC HOTEL, 137.

PORTRAIT, DR. WM. A. BELL, 138.

PORTRAIT, MAJOR R. A. KELSER, 138.

PORTRAIT, DR. H. E. BIESTER, 138.

PORTRAIT, DR. CHAS. W. BOWER, 138.

PORTRAIT, DR. H. J. STAFSETH, 138.

PORTRAIT, DR. E. P. ALTHOUSE, 139.

PORTRAIT, DR. F. H. BROWN, 139.

PORTRAIT, DR. W. A. HAGAN, 139.

PORTRAIT, DR. H. J. MILKS, 139.

PORTRAIT, DR. R. O. BILTZ, 139.

PHOTOGRAPH, THE COLISEUM, STATE FAIR GROUNDS, DETROIT, 140.

PHOTOGRAPH, SPEEDBOAT RACES ON THE DETROIT RIVER, 147.

THE BREEDING EFFICIENCY OF A HERD OF COWS NEGATIVE TO THE AGGLUTINATION TEST FOR ABORTION, 148.

Fig. 1. Services and conceptions of three bulls with low breeding efficiency, 165.

Fig. 2. Efficiency curve of bull KCHS, 166.

Fig. 3. Number of abortions in reactor and non-reactor groups, 167.

PHOTOGRAPH, GENERAL MOTORS BUILDING, DETROIT, 172.

PHOTOGRAPH, BRIDGE ON BELLE ISLE, DETROIT, 191.

REPORT OF EXPERIMENTAL WORK IN THE CONTROL OF BOVINE INFECTIOUS ABORTION, 215.

Fig. 1. The infected herd is kept in the barn and paddock at left, the clean herd on the right, 215.

Fig. 2. The infected herd, 216.

Fig. 3. The clean herd, 217.

Fig. 4. A view from the back of both barns, 218.

PHOTOGRAPH, SCENE ON BELLE ISLE, DETROIT, 238.

PHOTOGRAPH, 25TH VETERINARY EVACUATION HOSPITAL AT FORT SNELLING, 241.

PHOTOGRAPH, THE ART CENTER, DETROIT, 242.

PHOTOGRAPH, VETERINARIANS AT CARLISLE BARRACKS, 243.

FISH AND BAIT, 245.

Fig. 1. Fish, 245.

Fig. 2. Bait, 245.

PORTRAIT, DR. VERANUS A. MOORE, 246.

B
619.05
v. 75

90739

- PHOTOGRAPH, ALL SET FOR DETROIT, 248.
- PHOTOGRAPH, VETERINARIANS IN ATTENDANCE AT MEETING OF STATE VETERINARY MEDICAL ASSOCIATION OF TEXAS, COLLEGE STATION, JUNE 17-20, 1929, 257.
- PHOTOGRAPHS, THE A. V. M. A. CLINIC AT STATE FAIR GROUNDS, DETROIT.
 A quartet of well-known California veterinarians, 269.
 View of the clinic in Coliseum, 271.
 Luncheon, 273.
 Detroit Mounted Police Drill, 275.
- PORTRAIT, DR. T. H. FERGUSON, 286.
- A CONSIDERATION OF DISEASE ERADICATION IN POULTRY, 328.
 Fig. 1. Poultry ranch near Petaluma, 329.
 Fig. 2. A flock of vigorous, disease-free birds, 331.
- MENINGOENCEPHALOMYELITIS OF SWINE, 342.
 Fig. 1. A cross section of the spinal cord, 343.
 Fig. 2. A section of cerebral meninges, 344.
 Fig. 3. A section of brain, 345.
- ABNORMAL FETAL GROWTH, 360.
 Fig. 1. Malformed calf, 360.
- MELANOSIS, 362.
 Fig. 1. Melanosis, 362.
- RENAL COCCIDIOSIS OF GEESE, 365.
 Fig. 1. Renal coccidiosis. Showing coccidia in two uriniferous tubules, 366.
 Fig. 2. Renal coccidiosis. Coccidia at the edge of a tubule, 368.
- CONGENITAL DEFECT OF THE STOMACH OF A DOG, 370.
 Fig. 1. Congenital dilatation of the esophagus and malformation, 371.
- PHOTOGRAPH, DR. W. F. GUARD EXAMINING A HORSE FOR LAMENESS, 391.
- PHOTOGRAPH, DR. W. R. HOBBS PERFORMING AN OVARIECTOMY, 393.
- PROCEEDINGS OF THE SIXTY-SIXTH ANNUAL MEETING, DETROIT, MICHIGAN, AUGUST 13-16, 1929, 411.
 Chart 1. New members of the A. V. M. A., by years, from 1910 to 1929, 426.
 Chart 2. Membership figures for A. V. M. A., by years, from 1910 to 1929, 426.
 Chart 3. Payment of dues by A. V. M. A. members, 428.
 Chart 4. Annual cost of conducting A. V. M. A. activities from 1915 to 1928, 432.
 Chart 5. Gross income of A. V. M. A. from all sources, 433.
 Chart 6. Veterinary graduates from all colleges in United States and Canada, during period from 1908 to 1929, 434.
 Chart 7. Volume of correspondence in connection with office of Secretary-Editor, 434.
 Chart 8. Circulation figures of JOURNAL for years 1923 to 1929, 436.
- MAP, EXECUTIVE BOARD DISTRICTS, 498.
- PHOTOGRAPHS, SNAPPED AT THE A. V. M. A. CLINIC AT DETROIT, 531.
 Two old-timers, 530.
 Two state veterinarians, 530.
 Two clinicians, 530.
 Three veterinary deans, 530.
 Four veterinary pathologists, 530.
- PHOTOGRAPH, MAIN BUILDING, SERUM INSTITUTE, BERNE, SWITZERLAND, 542.
- PHOTOGRAPH, BACTERIOLOGICAL INSTITUTE. VETERINARY COLLEGE, BUDAPEST, 545.
- SOME OBSERVATIONS ON THE PATHOLOGY OF BACILLARY WHITE DIARRHEA IN BABY CHICKS, 581
 Fig. 1. Graph showing age of greatest mortality of infected and non-infected chicks, 583.
 Fig. 2. Frequency of occurrence of various lesions in livers of non-infected and infected chicks, 584.
 Fig. 3. Frequency of absorption or retention of yolk in non-infected and infected chicks, 585.
 Fig. 4. Frequency of occurrence of lesions in lungs of non-infected and infected chicks, 586.
 Fig. 5. Occurrence of lesions in liver, heart and lungs of non-infected and infected chicks, 587.
 Fig. 6. Normal chick heart muscle (x230), 588.
 Fig. 7. Heart muscle from chicken affected with bacillary white diarrhea (x230), 588.
 Fig. 8. Lung of chick affected with bacillary white diarrhea (x20), 589.
 Fig. 9. Large intestine of normal chick (x230), 590.
 Fig. 10. Large intestine of chick affected with bacillary white diarrhea (x230), 590.

THE STICK METHOD OF CUTANEOUS VIRUS VACCINATION AGAINST FOWL-POX, 629.

- Fig. 1. Location of vaccination stick at X, 631.
- Fig. 2. Stick vaccination equipment, 632.
- Fig. 3. Stick vaccination takes, 642.

PHOTOGRAPH, 107TH VETERINARY COMPANY, MICHIGAN NATIONAL GUARD, 655.

PHOTOGRAPH, VETERINARY SCHOOL AT BERNE, SWITZERLAND, 694.

STUDIES IN INFECTIOUS ENTERITIS OF SWINE. IV. INTESTINAL COCCIDIOSIS, 705.

- Fig. 1. Oocysts in swine feces from farm B (x800), 714.
- Fig. 2. Oocysts from pigs from farm I (x400), 714.
- Fig. 3. Oocysts in feces of pig 3215 (x400), 720.
- Fig. 4. Oocysts in the feces of pig from farm B (x400), 720.
- Fig. 5. Control pigs from the same source as those shown in fig. 2, 725.
- Fig. 6. Pigs 3212 and 3215, fed coccidial cultures of swine origin, 726.
- Fig. 7. Pigs 3212 and 3215, fed coccidial cultures of swine origin, 728.
- Fig. 8. From a fecal preparation from pig 3215 (x100), 731.
- Fig. 9. Fecal preparation from pig 3215 after pressure on cover-glass to permit focus (x400), 729.
- Fig. 10. Chart showing 300 oocysts of swine origin, 735.

INFECTIOUS PUSTULAR DERMATITIS OF SHEEP AND GOATS, 741.

- Fig. 1. Some animals show affections of the outer surface of the face, 742.
- Fig. 2. Some of the lambs show lesions confined to the exterior of the lips, 743.
- Fig. 3. The same animal as shown in figure 2, thirty-one days later, 744.
- Fig. 4. The mammary glands of a ewe, 745.
- Fig. 5. Vesicles and pustules developing the sixth day, 757.

TULAREMIA OF ANIMALS COMMUNICATED TO MAN, 769.

- Fig. 1. The ulceroglandular type of the disease associated with an ulcer on the hand, 769.
- Fig. 2. Tularemia ulcer on thumb following hunting and handling of rabbits, 770.
- Fig. 3. One of the rabbits was given to a neighbor and in 10 days a malignant ulcer developed on the index finger, 771.

A LIVER TUMOR IN A LION, 773.

- Fig. 1. A photograph showing the gross appearance of the tumor, 774.
- Fig. 2. A photomicrograph showing the type of cell in the tumor, 775.

PHOTOGRAPH, VETERINARIANS AT CAMP KNOX, 782.

PHOTOGRAPH, VETERINARY COLLEGE AT HANOVER, GERMANY, 786.

INDEX OF SUBJECTS

Abstracts:

- Ascarids, A Study of Moisture Requirements of the Eggs of the Horse, the Dog, Human and Pig, 781.
- Clostridium Botulinum* and *Parabotulinum*, Cultural Studies of an International Collection of, 779.
- Coccidiosis in Gallinaceous Birds, 651.
- Coccidiosis, A Quantitative Study of Poultry, 652.
- Exercise on the Size of Normal Hearts and Enlarged Hearts of Dogs, The Effect of, 781.
- Eyeworm of Poultry, Manson's, 652.
- Fowl-Pox Antiserum, 650.
- Hearts and Enlarged Hearts of Dogs, The Effect of Exercise on the Size of Normal, 781.
- Hodgkin's Nodes, Experimental Inoculation of Chickens with, 653.
- Hookworm Eggs, The Suitability of Various Bacteria as Food for, 780.
- Icterohemoglobinuria of Cattle in Nevada, The Occurrence of *Bacillus Sordelli* in, 780.
- Moisture Requirements of the Eggs of the Horse, the Dog, Human and Pig Ascarids, A Study of, 781.
- Mycobacterium Tuberculosis*, The Cytology and Microchemistry of, 779.
- Paralysis (Neurolymphomatosis gallinarum), Fowl, 650.
- Paralysis, Transmission Experiments with Fowl, 653.
- Pyæmic Forms of Infection in Sheep, A Contribution to the Knowledge of, 779.
- Rachitic Diets Containing Different Ratios of Calcium to Phosphorus on the Calcium and Inorganic Phosphorus of the Blood Serum of Chicks, The Effects of Feeding, 651.
- Streptococci, Animal Strains of Haemolytic, 781.
- Undulant Fever, 780.
- Uric Acid by the Fowl, The Secretion of, 652.

Army Veterinary Service:

- Changes Relative to Veterinary Officers, 106, 239, 376, 527, 654, 782.
- At Fort Snelling, 240.
- At Carlisle Barracks, 242.
- 107th Veterinary Company, M. N. G., 654.
- At Camp Knox, Kentucky, 782.

Association News:

Ameridan Veterinary Medical Association:

- Applications for membership, 10, 141, 288, 403, 543, 675.
- Camp Site at Detroit, 5.
- Convention Notes, 274.
- Exhibitors at Detroit Convention, 377.
- Hotels, Detroit, 5.
- Ladies, Plan for Detroit, 73.
- Program Material, Additional, 137.
- Program, Outline of, 6.

Proceedings of the Sixty-sixth Annual Meeting:

- Addresses of Welcome, 411, 415.
- Amendments, 503.
- Education and Research, Section on, 517, 523.
- Election of Officers, 442.
- Expulsion of Member, 508.
- General Practice, Section on, 515.
- Installation of New Officers, 511.
- Meeting Place for 1930, Invitations for, 448.
- Minutes of the 1928 Meeting, Adoption of the, 421.
- Opening Prayer, 411.
- Poultry, Section on, 526.
- President, Address of the, 295.

Reports:

- Abortion, Committee on, 460.
 - American Association for the Advancement of Science, 458.
 - Budget, Committee on, 508.
 - Dairy Farm Inspection, Committee on, 491.
 - Distemper, Committee on, 467.
 - Education, Committee on, 470.
 - Executive Board, 422, 496, 508.
 - History, Committee on, 461.
 - Horse Association of America, 454.
 - Humane Society Hospitals, Committee on, 492.
 - International Veterinary Congress, Committee on, 489.
 - Legislation, Committee on, 463.
 - National Research Council, 452.
 - Policy, Committee on, 484.
 - Poultry Diseases, Committee on, 464.
 - Prevention of Transmissible Diseases of Animals, Committee on, 476.
 - Proprietary Pharmaceuticals, Committee on, 487.
 - Resolutions, Committee on, 495.
 - Secretary-Editor, 423.
 - Treasurer, 440.
 - Tuberculosis, Committee on, 485.
 - Veterinary Biological Products, Committee on, 474.
 - Resignations, 423.
 - Resolution, 509.
 - Response to Addresses of Welcome, 418.
 - Sanitary Science and Food Hygiene, Section on, 516, 523.
 - Small Animals, Section on, 523.
- ## Other Meetings:
- California State Veterinary Medical Association, 250.
 - Central Canada Veterinary Association, 385.
 - Central Michigan Veterinary Medical Association, 792.
 - Conestoga Veterinary Club, 124.
 - Delaware Veterinary Medical Association, 787.
 - Hudson Valley Veterinary Medical Society, 123, 666.
 - Kansas City Association of Veterinarians, 259.
 - Kentucky Veterinary Medical Association, 381.
 - Manitoba, Veterinary Association of, 112, 380.
 - Maryland State Veterinary Medical Association, 67, 659.
 - Massachusetts Veterinary Association, 259.
 - Minnesota State Veterinary Medical Society, 389.
 - Nevada State Veterinary Association, 384.
 - New York City, Veterinary Medical Association of, 121, 787.
 - North Carolina State Veterinary Medical Association, 378.
 - North Central Iowa Veterinary Medical Association, 125.
 - North Dakota Veterinary Association, 382.
 - Northeastern Pennsylvania Veterinary Medical Club, 788.
 - Oklahoma State Veterinary Medical Association, 382.
 - Ontario, Conference of Graduate Veterinarians of, 664.
 - Ontario Veterinary Association, 385, 789.
 - Pacific Northwest Veterinary Medical Association, 657.
 - Pennsylvania State Veterinary Medical Association, 791.
 - Quebec, College of Veterinary Surgeons of the Province of, 388.
 - Saginaw Valley Veterinary Medical Association, 120, 666.

South Carolina Association of Veterinarians, 384.
 Southeastern Michigan Veterinary Medical Association, 117.
 Texas, State Veterinary Medical Association of, 256.
 Utah Veterinary Medical Association, 789.
 Vermont Veterinary Medical Association, 388.
 Virginia State Veterinary Medical Association, 663.

Births.....130, 264, 398, 794.

Book Reviews:

American Association for the Advancement of Science, Summarized Proceedings of the, 777.
 Canine Distemper with the Potentized Virus, Treatment of, 778.
 Higiene Moderna de la Leche (Modern Milk Hygiene), 778.
 Nursing, Canine, 777.

Clinical and Case Reports:

Achilles in the Dog, Reunion of the Tendon of, 363.
 Arthritis in the Pigeon Caused by *Salmonella Schotmulleri*, 369.
 Aspergillus Fumigatus Infection of the Kidney, 369.
 Bacillary White Diarrhea, Poults Susceptible to, 647.
 Choke in a Horse, 361.
 Coccidiosis, Bovine, 105.
 Coccidiosis of Geese, Renal, 365.
 Defect of the Stomach of a Dog, Congenital, 370.
 Enteritis Bacterin in Dogs, Experiment with Mixed, 360.
 Fetal Growth, Abnormal, 360.
 Hemorrhagic Septicemia in a Mink, 771.
 Lightning Stroke, 103.
 Melanosis, 362.
 Mustard in the Treatment of Sheep for Parasites, A Note on the Use of, 100.
 Ophthalmitis in Baby Chicks and Turkeys, 647.
 Paresis, An Abnormal Case of Parturient, 104.
 Pregnancy in a Cow, Multiple, 105.
 Ruptured Stomach in a Mule, 371.
Salmonella Aertrycke Infection in the Canary Bird, 230.
 Tularemia of Animals Communicated to Man, 769.
 Tumor in a Lion, A Liver, 773.

Commencements:

Alabama Polytechnic Institute, 107.
 Colorado Agricultural College, 108.
 Cornell University, 111.
 Georgia, University of, 112.
 Iowa State College, 108.
 Kansas State Agricultural College, 107.
 Michigan State College, 112.
 Ohio State University, 110.
 Pennsylvania, University of, 111.
 Texas, A. and M. College of, 376.
 Washington, State College of, 107.

Communication:

Graduate Veterinarians, 377.

Editorials:

Class of 1929, The, 1.
 Detroit in 1900, At, 140.
 Detroit, On to, 133.
 Ferguson Has Heavy Schedule, President, 673.
 Finances, 401.
 History Repeats Itself, 267.
 Membership, 537.
 Opportunity, Grasping an, 674.
 Poultry Diseases Increases, Interest in, 539.
 President, Our New, 284.
 Rabies, Just About, 135.

Student Chapters, Two New, 2.
 Student Enrollment for 1929-1930, Veterinary, 540.
 Survey, Completing Our, 3.
 Welch Now State Veterinarian, Doctor, 674.

Examinations, State Board625.

Examinations, U. S. Civil Service, 308, 356, 407, 760.

Marriages130, 264, 398,

Meetings, Coming Veterinary, 19, 147, 294, 405, 544, 676.

Miscellaneous:

Abortion for 1927, Bibliography on Bovine Infectious, 232.
 Abortion-Free Herds in Oregon, 244.
 Advertising a Veterinarian, 200.
 California Veterinary Conference, 792.
 Castrating and Docking Improves Lambs, 18.
 Chattanooga Veterinarians Open New Hospital, 740.
 Darwinism, 776.
 Donation, 134.
 Drowned, Cornell Students, 116.
 Dye Approved, New Blue Food, 372.
 Eastern Iowa Picnic, 37.
 Erratum, 214.
 Fish and Bait, 245.
 Flower Library Fund Increased, 114.
 Fowl-Pest in New Jersey, 548.
 Guard, Be on Your, 701.
 Horses in London, 242.
 Jensen in New Field, Dr., 115.
 Jensen-Salsbery Laboratories Reorganized, 113.
 Idaho B. A. I. Men 100 Per Cent A. V. M. A., 116.
 Indiana Regulates Against Bang Disease, 562.
 International Veterinary Congress, 115, 542, 786.
 Maine Free of Bovine Tuberculosis, 359.
 Michigan Law Sustained, 656.
 Misbranded Products Removed from the Market, 649.
 Missouri Valley Meeting, 85.
 Modified Accredited Area Increases, 532.
 Montana to Study Animal Diseases, 784.
 Moore Retires, Dean, 247.
 Mule and Farmer, 768.
 Muskrats to Europe, Canadian, 532.
 Mystery, Veterinarian Solves, 529.
 Neuzil, Complimenting Doctor, 115.
 Ohio State, New Dean at, 410.
 Pamphlet and Poster to Protect Porks, 248.
 Pan-African Veterinary Conference, 656.
 Pearson a Perpetual Booster, Doctor, 694.
 Poisoning of Live Stock by Range Plants, 653.
 Publicity, Good, 740.
 Sigler Featured, Doctor, 785.
 Specimens Examined, Many, 667.
 State Board Changes, 577.
 Tail Waggers' Club, 764.
 Texas Fever, Revised Bulletin on, 327.
 Tick Quarantine, Large Area Released from, 776.
 Tour, Itinerary of Official, 249.
 Tractor Sales, 114.
 Turkeys to be Graded, 704.
 Violator Fined, 332.
 Violators Successfully Prosecuted, 67.
 Visitors at the JOURNAL Office, 530.
 Worth on the Hoof, How Much Are You, 783.

Necrology:

Ashbaugh, Frederick M., 670.
 Aulgar, H. W. B., 534.
 Becker, Charles J., 394.
 Benner, Willis G., 127.
 Black, Horace G., 533.
 Bolton, Benjamin Meade, 398.
 Bonebrake, Adam W., 398.
 Brill, Joseph A., 668.

Brooks, J. L., 261.
 Carr, Frank H., 397.
 Christman, Herman A., 533.
 Coppes, George W., 129.
 Corey, W. H., 127.
 De Wolf, Dolph S., 129.
 Dinwiddie, R. R., 668.
 Edwards, Warren T., 262.
 Estes, H. R., 128.
 Frost, Roy C., 128.
 Fulton, Samuel R., 263.
 Gates, Jacob A., 263.
 Giffen, William A., 262.
 Gilliland, S. H., 126.
 Guile, Charles R., 793.
 Harshberger, John W., 263.
 Herring, Edwin H., 395.
 Huston, George Dewey, 794.
 Jewell, Lt. Col. Charles H., 396.
 Kupper, W. J., 262.
 Linberg, J. William, 532.
 Mandell, John Alfred, 263.
 Moles, Irving, 261.
 Morrow, Samuel G., 534.
 Moyer, Enos S., 129.
 Nance, Joseph E., 669.
 Parkinson, George H., 793.
 Rice, Charles Dobbs, 794.
 Rosenberger, Ichabod A., 397.
 Shealy, Alonzo Sheck, 793.
 Shevalier, Eugene D., 263.
 Simpson, Charles W., 129.
 Smith, Major General Sir F., 394.
 Webster, Richard G., 533.
 Williams, Howard Lewis, 669.
 Wimsatt, O. R., 261.
 Winegar, Amos, 129.

Papers:

Abortion, The Breeding Efficiency of a Herd of Cows Negative to the Agglutination Test for, 148.
 Abortion Disease in Cattle, A Comparison of the Rapid and Slow Agglutination Methods for the Diagnosis of Bang, 761.
 Abortion Disease in the Fowl, 578.
 Abortion Disease of Cattle, Correlation of the Rapid and the Slow Agglutination Tests for Bang's, 86.
 Abortion, Report of Experimental Work in the Control of Bovine Infectious, 215.
 Address of the President, 295.
 Agglutination Methods for the Diagnosis of Bang Abortion Disease in Cattle, A Comparison of the Rapid and Slow, 761.
 Agglutination Test for Pullorum Disease, A Simplified, 408.
 Agglutination Test in the Detection of Bacillary White Diarrhea, The Constancy of the, 765.
 Agglutination Test in the Detection of Bacillary White Diarrhea, The Slide, 626.
 Agglutination Tests for Bang's Abortion Disease of Cattle, Correlation of the Rapid and the Slow, 86.
 Army Veterinary Corps, The, 406.
 Bacillary White Diarrhea Among Hens, The Transmission of, 333.
 Bacillary White Diarrhea in Baby Chicks, Some Observations on the Pathology of, 581.

Bacillary White Diarrhea, The Constancy of the Agglutination Test in the Detection of, 765.
 Bacillary White Diarrhea, The Slide Agglutination Test in the Detection of, 626.
 Botulinum Toxins, The Antigenic Value of Formolized, 21.
 Breeding Efficiency of a Herd of Cows Negative to the Agglutination Test for Abortion, The, 148.
 Chicken-Pox, The Effect on Healthy Pullets of Preventive Vaccination Against, 592.
 Coccidiosis, Studies in Infectious Enteritis of Swine. IV. Intestinal, 705.
 Dermatitis of Sheep and Goats, Infectious Pustular, 741.
 Enteritis of Swine. IV. Intestinal Coccidiosis, Studies in Infectious, 705.
 Foot-and-Mouth Disease in California, The 1929 Outbreak of, 309.
 Fowl-Pox and Its Control, Some Aspects of, 563.
 Fowl-Pox, The Stick Method of Cutaneous Virus Vaccination Against, 629.
 France, To the Veterinary Profession of, 357.
 Fumigation of Forced-Draft Incubators, 611.
 Hemoglobinuria, Immunization of Cattle Against Bacillary, 201.
 Incubators, Fumigation of Forced-Draft, 611.
 Insemination and Breeding Hygiene, Artificial, 337.
 Malignant Growths in Domestic Animals, 192.
 Meningoencephalomyelitis of Swine, 342.
 Milk Fever, Note on Some Urine and Blood Chemistry in, 702.
 Milk Fever, Recent Progress in Our Knowledge of, 695.
 Milk Inspection in a Small Town, 68.
 Paralysis, Autopsy Findings in Field Cases of Fowl, 38.
 Parasitology in the United States, Problems in Veterinary, 319.
 Poultry, A Consideration of Disease Eradication in, 328.
 Poultry Industry, The Veterinarian's Obligation to the, 546.
 Public Welfare, The Veterinarian and His Relation to the, 347.
 Pullorum Disease, A Simplified Agglutination Test for, 408.
 Rabies Control in Chicago, 91.
 Ship Inspection a Factor in Animal Disease Control, 351.
 Skin Lesions, Studies with Bovine, 51.
 Tetrachlorethylene as an Anthelmintic, Further Miscellaneous Tests of, 74.
 Tuberculosis in Nebraska, Avian, 549.
 Tularemia: Its Transmission to Sheep by the Wood Tick, *Dermacentor Andersoni* Stiles, 173.
 Undulant Fever, Public Health Aspects of, 679.
 Vaccination Against Chicken-Pox, The Effect on Healthy Pullets of Preventive, 592.
 Vaccination Against Fowl-Pox, The Stick Method of Cutaneous Virus, 629.
 Veterinarian and His Relation to the Public Welfare, The, 347.
 Personals 130, 264, 398, 534, 670, 794
 Publications Received 373, 528.